



**Plant conservation for the next decade:  
a celebration of Kew's 250<sup>th</sup> anniversary**  
**12-16 October 2009**

**Conference Programme**

**sponsored by:**

**The Andrew W. Mellon Foundation**



**AoB PLANTS**



## MONDAY 12TH OCTOBER

Jodrell Lecture Theatre, Jodrell Laboratory, Royal Botanic Gardens, Kew

- 14:00-17:30      **Registration**  
17:30-18:30      **Plenary lecture**  
Chair: Professor Stephen Hopper FLS  
Professor Sir Ghilleen T Prance FRS VMH  
A brief history of conservation at the Royal Botanic Gardens, Kew
- 18:30-20:00      **Director's reception**  
Hosted by the Director of the Royal Botanic Gardens, Kew, Professor Stephen Hopper

## TUESDAY 13TH OCTOBER

Jodrell Lecture Theatre, Jodrell Laboratory, Royal Botanic Gardens, Kew

- 08:45-09:00      Welcome to conference delegates  
Official opening by Parliamentary Under-Secretary of State Huw Irranca-Davies MP  
(Minister for Marine and Natural Environment)

### **Session 1      Plant conservation: policies and politics** Chairs: Professor Robert Watson and Dr Eimear Nic Lughadha

- 09:00-09:45      Dr Judy West\*                      The warp and weft of policies and politics  
09:45-10:05      Dr Eimear Nic Lughadha              Evidence-based policy making: the contribution of Kew Science  
10:05-10:25      Dr Maria Amélia Martins-Louçao      Policies for plant diversity conservation on a global scale: a SWOT analysis  
10:25-10:45      Dr Kayri Havens                      Assisted migration of plants: Changes in latitudes, changes in attitudes  
10:45-11:10      **Coffee break**  
11:10-11:30      Dr Colin Clubbe                      Using the GSPC to guide conservation implementation in the UK Overseas Territories  
11:30-11:50      Dr Suzanne Sharrock                  The Global Strategy for Plant Conservation: planning ahead for global change.  
11:50-12:10      Dr Simon Stuart                      IUCN's vision for plant conservation assessments as a contribution to the GSPC  
12:10-12:15      Mr Brian Marsh OBE                  Presentation of the Marsh Botany Award

### 12:15-13:15      **Lunch Break**

### **Session 2      Frontiers of plant conservation technology** Chair: Dr Peggy Olwell

- 13:15-14:00      Dr Valerie Pence\*                      The possibilities and challenges of *in vitro* methods for conservation  
14:00-14:20      Dr Viswambharan Sarasan              Importance of *in vitro* technology to future conservation programmes worldwide  
14:20-14:40      Dr Alex Monro                          A novel approach to integrating remote-sensed wavelength and field based biodiversity data  
14:40-15:00      Prof Rob Marrs                          The potential effects of aggressive species in British woodlands  
15:00-15:20      Dr Mijoro Rakotoarivivo                  Madagascar Breathing Planet projects: using predictive mapping for species conservation

\* denotes session keynote speaker

## TUESDAY 13TH OCTOBER cont.

15:20-15:50 **Tea break**

### Session 2 **Frontiers of plant conservation technology cont.**

15:50-16:10 Prof Hugh Pritchard

Storage stability and the biophysics of preservation

16:10-16:30 Prof Jin Chen

Transition of botanical garden management philosophy in the new generation botanical gardens

### 16:30-17:15 **Plenary lecture**

Professor Sir Peter Crane FRS

Chicago Wilderness: integrating biological and social diversity in the urban garden

### 17:15-19:30 **Sponsors' reception and Poster session in the Jodrell Atrium and School of Horticulture**

- Launch of new open access electronic journal ***AoB PLANTS***
- Presentation of 'Beyond Paradise' by the Association for Tropical Biology and Conservation

## WEDNESDAY 14TH OCTOBER

Jodrell Lecture Theatre, Jodrell Laboratory, Royal Botanic Gardens, Kew

### Session 3 **Plant conservation and agriculture**

Chair: Professor Monique Simmonds

09:00-09:45 Prof Hongwen Huang\*

Biogeography, conservation, germplasm discovery

09:45-10:05 Prof David Mabberley

The citrus story

10:05-10:25 Dr Xiaobo Zou

Wild vegetables of seed plants in Western Hunan Province, China

10:25-10:45 Dr Nigel Maxted

A global approach to crop wild relative conservation: securing our food and agriculture gene pool

### 10:45-11:15 **Coffee break**

11:15-11:35 Prof Cary Fowler

Preparing agriculture for the 21st Century: towards a global system of genebanks

11:35-11:55 Dr Emile Frison

Genebanks: moving beyond ex-situ conservation.

11:55-12:15 Dr Paul Smith

The Millennium Seed Bank Partnership: enabling adaptation and innovation

### 12:15-13:15 **Lunch Break**

### Session 4 **Plant conservation: management and restoration**

Chair: Dr Peter Wyse-Jackson

13:15-14:00 Prof Richard Hobbs\*

Plant conservation in a changing world: what types of intervention are needed and appropriate?

14:00-14:20 Dr Avi Perevolotsky

Plant conservation in Mediterranean ecosystems: An adaptive management approach

14:20-14:40 Prof Michael Hutchings

Are we there yet?..... How many data are needed to forecast population trends reliably in rare species? A case study of *Ophrys sphegodes* (Orchidaceae).

14:40-15:00 Dr Pati Vitt

Modeling range shifts of rare, threatened and endangered plants in north eastern North America

15:00-15:20 Dr Claudia Baidar

An appraisal of the effectiveness of manual control of invasive alien plants to conserve the native flora of wet lowland forests remnants of Mauritius.

and Dr Vincent Florens

\* denotes session keynote speaker

## WEDNESDAY 14TH OCTOBER cont.

### Session 4 **Plant conservation: management and restoration cont.**

15:20-15:50

#### **Tea break**

15:50-16:10

Dr Anne Cochrane

Inter situ conservation: integrating in situ and ex situ conservation to recover threatened endemic flora in South West Western Australia

16:10-16:30

Dr Peter Cuneo

Much more than seeds in the bank: the building of a seed conservation network across Australia

16:30-16:50

Dr Michael Fay

Genetics for conservation

16:50-17:10

Dr David Kikodze

Plant conservation projects in Georgia

**19:00-22:30 Conference Dinner at the Orangery Restaurant, Royal Botanic Gardens, Kew  
After-dinner address by Dr Peter H Raven**

## THURSDAY 15TH OCTOBER

Excursion to Wakehurst Place and **Millennium Seed Bank Partnership Reception.** Coach leaving Main Gates of Kew at 10.30am

Kew tours:

Jodrell Laboratory  
Herbarium, Library, Art and Archives,  
Conservation Biotechnology Unit  
Kew Glasshouses

Sign-up sheets for the Kew tours will be available at the registration desk. Times of tours to be confirmed.

## FRIDAY 16TH OCTOBER

Jodrell Lecture Theatre, Jodrell Laboratory, Royal Botanic Gardens, Kew

### Session 5 **Plant conservation and human cultures**

Chair: Professor David J Mabberley

09:00-09:45

Dr Joseph Cobbinah\*

Unlocking the potential of tropical Africa plants: the PROTA initiative

09:45-10:05

Dr Oliver Whaley

An ecosystem approach to habitat restoration and sustainable management of southern Peruvian dry forest

10:05-10:25

Dr Andrew Vovides

Cycad propagation by rural nurseries in Mexico as an alternative conservation strategy: 20 years later.

10:25-10:45

Dr Jill Sutcliffe

Sussex communities: plants and people

10:45-11:15

#### **Coffee break**

11:15-11:35

Mr Roger Smith OBE

The evolutionary analysis of human behaviour: its potential to increase plant conservation success

11:35-11:55

Dr Dawn Sanders

'All netted together': Is there a need for cultural consilience in the face of extinction?

\* denotes session keynote speaker

## FRIDAY 16TH OCTOBER cont.

Jodrell Lecture Theatre, Jodrell Laboratory, Royal Botanic Gardens, Kew

11:55-13:15      **Lunch Break**

### **Session 6      Plant conservation: what can we afford to lose?**

Chair: Professor Mark W Chase FRS

13:15-14:00	Dr Leng Guan Saw*	Conservation of rare, endangered and endemic plants in Malaysia
14:00-14:20	Dr Gregory Mueller	Developing an approach for assessing macrofungi under IUCN Red List criteria using recent data on their distributions and population structure
14:20-14:40	Dr Neil Brummitt	The Sampled Red List Index for Plants: assessing the 2010 Biodiversity Target
14:40-15:00	Dr Eve Lucas	Predicting biodiversity and prioritising areas for conservation using herbarium specimens
15:00-15:20	Dr Felix Forest	Environmental pressures and the evolutionary history of biotas: phylogenetic diversity in the Cape and Southwest Australian floristic regions
15:20-15:50	<b>Tea break</b>	
15:50-16:10	Dr William Milliken	What we don't know about the Amazon and how much does it matter?
16:10-16:30	Dr David Roberts	Biodiversity, am I missing something? Species detectability and extinction

### **Plenary lecture**

16:30-17:15	Ms Sara Oldfield	Progress in plant conservation – are we saving the world?
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**17:15-17:30      Professor Stephen Hopper      Discussion and closing remarks**

## SATURDAY 17TH OCTOBER

Extra event: ***Orchid Conservation International special lecture***

Jodrell Lecture Theatre, Jodrell Laboratory, Royal Botanic Gardens, Kew

£5 admission fee on the door (incl. 1 year membership to OCI). Free entry for existing OCI members.

14:00-15:00	<b>Professor Mark W Chase FRS</b>	Why orchids were so important to Darwin
15:00-16:00		Light refreshments

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